

Work Order ID 61890

September 9, 2010 10:06:22 AM



Page 1

Item ID: D3687-3

Accept



Setup Start



Revision ID:

Stop



Item Name: MOUNT

Start Date: 9/09/10 Start Qty: 5.00



Cust Item ID:

Required Date: 9/30/10 Req'd Qty: 5.00



Customer:

Reference:

Approvals: Process Plan: CL Date: 10/9/9 Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
----------	--------------

D3687	Rev B <u>C</u>
-------	----------------

P/b →

100

0.00



Outsource1

Memo

0.00

Outsource process - Heat Treat

Send M174B3937X4750 For heat treating
to CONDITION H-900(to become M174PHH900B3937X4750)
FTU IN EXCESS OF 190 KSI
FTU IN EXCESS OF 170 KSI

CERTIFICATE IS REQUIRED

105

0.00



Outsource5

Memo

0.00

Outsource process - Machining

Issue P/O: 12542
Machine as per Dwg D3687
Possible Supplier: Globus Precision
Conformity sheet required

CL 10/09/09 (5)

258

Dart Aerospace Ltd

W/O: 61890		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
10/11/09	# 100	Perm. change change header box to Rev C (Was done) perm change		11.05.10		 10.12.09	 10/11/09	

Part No: D 3687-3 PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 61890

September 9, 2010 10:06:22 AM



Page 2

Item ID: D3687-3

Accept



Setup Start



Revision ID:

Stop



Item Name: MOUNT

Start Date: 9/09/10 Start Qty: 5.00



Cust Item ID:

Required Date: 9/30/10 Req'd Qty: 5.00

Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

110

Receive & Inspect for Damage & Mat'l Certs

0.00



Packaging

Memo

0.00

Packaging

Ensure certificate of conformity is attached

Handwritten: C4/11/2010 (S) Pro →

120

QC6- Inspect dimensions to drawing

0.00



QC

Memo

0.00

Quality Control

Handwritten: test fitted with AN3C 33" Bults
on D3686 - 7 + D3688 - 1 studs.
Also test 1.50" Pin to ensure fit

0.00

124



Purchasing

Memo

0.00

Purchasing

Issue P/O FOR LIQUID PENETRATION
P/O #: 13113

Certificate of conformity is required

Handwritten: S10/12/09
S10/12/02 Cross work in heat treat reults.



Handwritten: (X)

Handwritten: C4 10/12/09 (S)

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: D3687-2 PAR #: n/a Fault Category: Supplier NCR: Yes No DQA: A Date: 11.05.13
 Resolution: Rework Disposition: Rework QA: N/C Closed: ck Date: 11/05/16

NCR: <u>61890</u>		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			
10/4/05	# 105	Found at inspection that the .189" hole in the 45 (A1) is too small. 1.186" pin goes through with ease. Checked with Precision ground pin .189" All .189" holes are undersized.	 10/11/05	→ Pin hole to correct Dim. → Deburr	Mick 10/11/09 Mick 10/11/09	S 10/11/05	 10/11/05	S 10/11/05
		R.C Driller too small by supplier Globus Precision	qst 042	→ inform Globus of issue so it can be fixed in the future	10/11/30 no response and no e-mail		n/a.	S 10/11/05

NOTE: Date & initial all entries

Work Order ID 61890

September 9, 2010 10:06:22 AM



Page 3

Item ID: D3687-3

Accept



Setup Start



Revision ID:

Stop



Item Name: MOUNT

Start Date: 9/09/10 Start Qty: 5.00



Cust Item ID:

Required Date: 9/30/10 Req'd Qty: 5.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

125

Receive & Inspect for Damage & Mat'l Certs

0.00



Packaging

Memo

0.00

Packaging

ENSURE NDT RESULT IS ATTACH

→ ensure all parts are clean at any
Sinker NOT testing resucker - ml 10/12/13

10/12/10 Pls →

126

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

ml 10 12 13 (5)

127

QC6- Inspect dimensions to drawing

0.00



QC

Memo

0.00

Quality Control

DIMENSIONAL CHECK,
ENSURE THAT BOLT HOLES ARE CORRECT SIZE

→ 8/10/12/13
was Done @
step # 120

(X)

Dart Aerospace Ltd

W/O: 61890		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
10/10/05	# 05.2	Perm. change ADD step to ensure all parts are checked after 10T testing of any + All parts residues	<i>[Signature]</i>	11.05.10 10/10/05			S 10/14/05

Part No: D3687-3 PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 61890

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September 9, 2010 10:06:22 AM

Item ID:	D3687-3	Accept		Setup	Start	
Revision ID:					Stop	
Item Name:	MOUNT					
Start Date:	9/09/10	Start Qty:	5.00		Cust Item ID:	
Required Date:	9/30/10	Req'd Qty:	5.00		Customer:	
Reference:						

Approvals:	Process Plan:	Date:	Tooling:	Date:	Run	Start	
	QC:	Date:	SPC (Y/N):	Date:		Stop	

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location GA	0.00							
	Packaging								
	Memo	0.00							
	Packaging								
140	QC21- Final Inspection - Work Order Release	0.00							
	QC								
	Memo	0.00							
	Quality Control								

10/12/13

50

11/5/10

MF

10-12-13

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

September 9, 2010 10:06:22 AM

Page 1

Work Order ID: 61890



Parent Item: D3687-3



Parent Item Name: MOUNT

Start Date: 9/09/10

Required Date: 9/30/10

Start Qty: 5.00

Required Qty: 5.00

Comments: IPP Rev:A New Issue 08-01-15 JLM Verified By:EC
 IPP Rev:B Added Contion H-900 JLM Verified By:DD IPP
 REV:C ADDED QC6 10-09-09 JLM VERIFIED BY :DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

M174PH-
H900B3.937X4.750

Purchased

No

100

f

22.8000

0.3333

1.754211



17-4SS Bar H900-3.937x4.750

Location

Loc Qty

Loc Code

MAT

22.8

110875

2

112374

20.8

D3687-3P

Purchased

No

105

Each

0.0000

1

5



MOUNT

not needed.
 1.754211 C/L 10/19/10.
 MF 10-12-13

Dart Aerospace Ltd

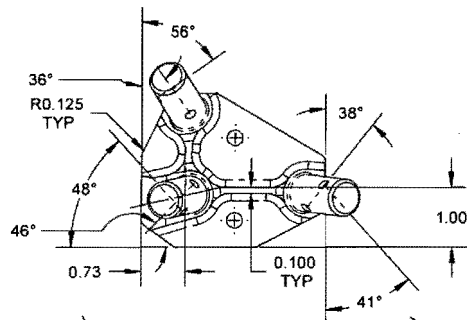
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

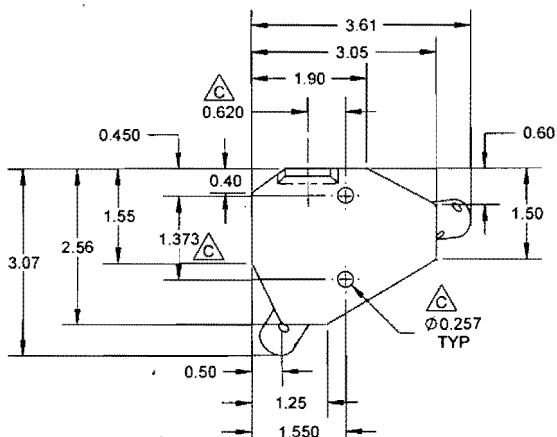
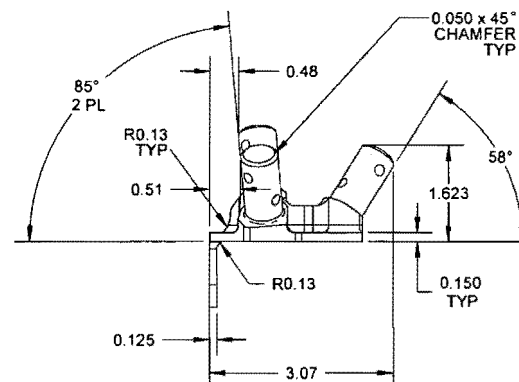
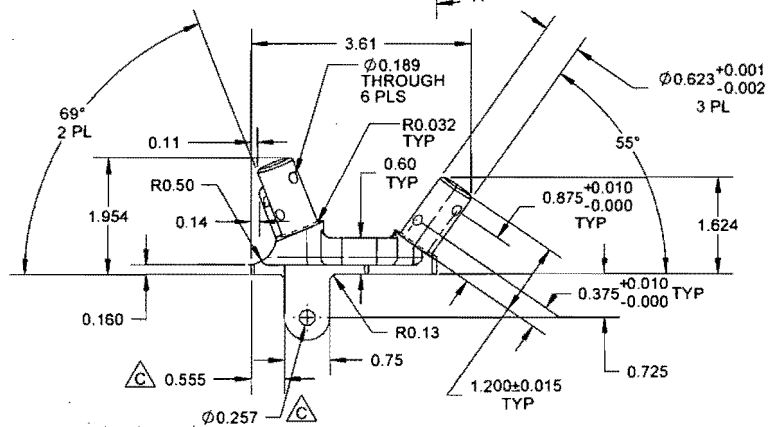
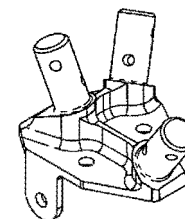
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



CL10/9/9
W10:61890



D3687-1 MOUNT

NOTES:

- 1) MATERIAL: 17-4PH SS BAR PER AMS 5643, H-900 CONDITION
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 0.81 lb
- 8) LPI PER QSI 038 4.1.1 (ASTM E1417 LEVEL 2)

RELEASED
2009-09-22

C	0.555 WAS 0.50 (ZN B8-1); 1.373 WAS 1.375 (ZN A8-1, A8-2); ADD 0.620 (ZN B7-1) PER NCR09-084; UPDATE NOTE 8 TO REF QSI (ZN A6-1, B3-2); Ø0.257 WAS Ø0.250 (ZN A6-1, B7-1, B7-2)	RF	09.08.26
B	CHANGE TO 17-4PH H-900 (ZN A6-1 & B3-2); R0.032 WAS R0.015 (ZN C7-1 & C7-2); REFORMATTED TO CURRENT DWG STANDARDS	RF	08.11.24
A	NEW ISSUE	RF	08.03.12
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	97	DRAWING NO. REV. C	
MFG. APPR.	21	D3687 SHEET 1 OF 2	
APPROVED	140	TITLE SCALE	
DE APPR.	140	MOUNT NTS	
DATE	09.08.26	COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE REPRODUCED OR COPIED OR LOANED OR RENTED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

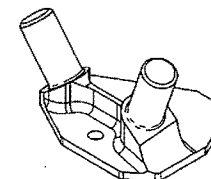
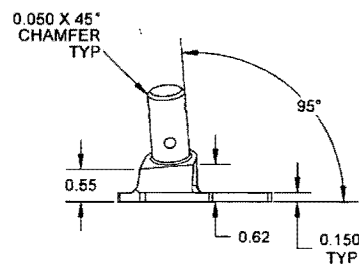
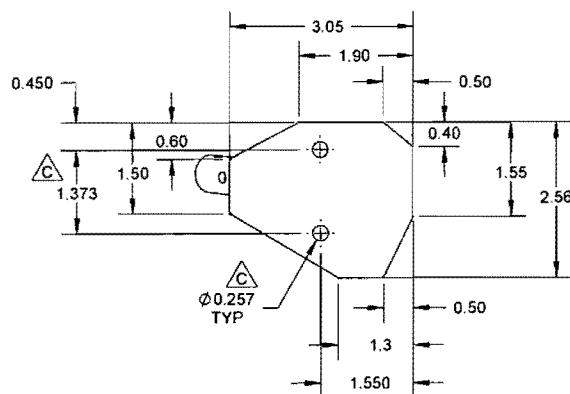
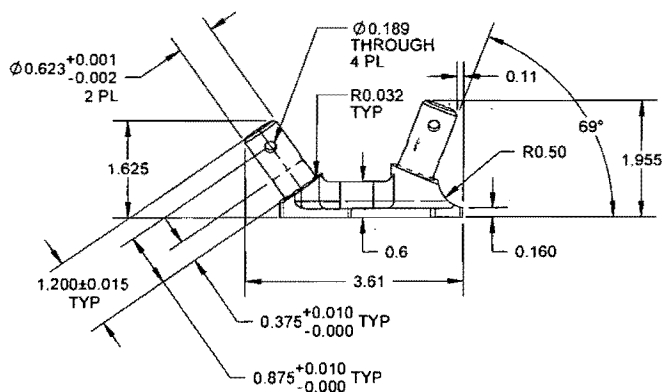
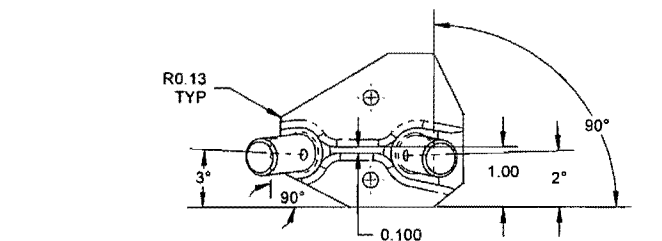
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



NOTES:

- 1) MATERIAL: 17-4PH SS BAR PER AMS 5643, H-900 CONDITION
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 0.64 lb
- 8) LPI PER QSI 038 4.1.1 (ASTM E1417 LEVEL 2)



D3687-3 MOUNT

RELEASED
2009-09-22

DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	RF	DRAWING NO.	REV. C
MFG. APPR.	RF	D3687	SHEET 2 OF 2
APPROVED	RF	TITLE	SCALE
DE APPR.	RF	MOUNT	NTS
DATE	09.08.26	COPYRIGHT © 2000 BY DART AEROSPACE LTD	
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO12542

Purchase Order Date 9/09/10

PO Print Date 9/09/10

Page Number 1 of 1

Order From :

VC-GLO001

GLOBUS PRECISION INC.
36 COLONNADE RD. N.
NEPEAN, ON K2E 7J6
CA

Contact Name

Vendor Phone

613 226 1579

Vendor Fax

613 226 1719

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA



Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	D3687-1P	MOUNT	10/08/10 Yes	5.00 Each	Purolator ground	\$400.0000	\$2,000.00

Special Inst: MACHINE AS PER DWG D3687 REV. C
B61889
MATERIAL: 174PH-H900 BAR 3.937 X
4.750 MI 12374
SUPPLIED BY DART

2	D3687-3P	MOUNT	10/08/10 Yes	5.00 Each	Purolator ground	\$326.4200	\$1,632.10
---	----------	-------	-----------------	--------------	------------------	------------	------------

Special Inst: MACHINE AS PER DWG D3687 REV. C
B61890
MATERIAL AS ABOVE

PO Total: \$3,632.10

CERTIFICATE OF CONFORMITY
REQ'D UPON DELIVERY

Change Nbr: 1

Change Date: 9/09/10

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable



Invoice

36 Colonnade Road N.
Ottawa, Ontario K2E 7J6
Tel: (613) 226-1579
Fax: (613) 226-1719

DATE	INVOICE NO.
10/19/2010	18119

BILL TO	SHIP TO
Dart Aerospace 1270 Aberdeen Street Hawksbury, Ontario K6A 1K7	Main Finished Goods Location Dart Aerospace 1270 Aberdeen Street Hawksbury, Ontario K6A 1K7

P.O. NO.	TERMS	SHIP DATE	SHIPPED VIA	JOB NO.	FOB
12542	Net 30 Days	10/19/2010	FedEx	211	Globe

QTY	DESCRIPTION
5	D-3687-1P Mount
5	D-3687-3P Mount
	Business Number: 102122058
	Total PST
	<i>8101 ulog</i>
	<i>SC</i>
	ALL CERTIFICATES LISTED HAVE BEEN REVIEWED AND IN ACCORDANCE WITH DRAWINGS AND MATERIAL CITY SPECIFICATIONS

WHITE = Original
BLUE = C of C
YELLOW = Packing Slip

HST

TOTAL \$0.00

Receiving Report

Date: 09/08/06

Batch No: M112374

Supplier: Ymagnu

Dart P/O: 10117

Packing Slip: Yes ✓ No
 Invoice: Yes No ✓
 Receipt: Cash Cr

Release Note Attached: Yes No N/A
 Waybill Attached: Yes No N/A
 Shipment Complete: S Yes ✓ No N/A
 QC6 Inspection 9/08/21 N/A
 Work Order N/A

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12 CZ

Production/Admin: 08/09/19
 Date RCV 10117
 Received/Costing CZ
 Initial

Location



Magna Stainless
5775 Kieran St, Saint-Laurent QC H4S 0A3
Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105

INVOICE

Pg 1 of 1 I014724

SOLD TO:

DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY , ON
K6A 1K7

RECEIVED

JUL 31 2009

SHIP TO:

METCOR
560 BOUL ARTHUR SAUVE
SAINT-EUSTACHE, QC
J7R 5A8

MTR:Y

INVOICE DATE:	07/27/09
ORDER DATE:	07/22/09
SHIP DATE:	07/27/09
ORDER NUMBER:	W016184
PURCHASE ORDER:	P010117

Currency		Sales Person		Ship Via		F.O.B.		Terms	
CANADIAN DOLLARS		ERYCK BLAIS		NIR:R-557065-1		PREPAID		NET 30 DAYS	
Ln	Back Ordered	Ordered	Unit	Description		Shipped		Price/Per	Value
		2	PC	STAINLESS - LB 17-4 PH 3.937 X 4.750 X 9' L029745 2 PC/1,201 LB PLEASE CUT BAR IN HALF		2 UN		4,310.00	8,620.00
		4	PC	STAINLESS ROUNDS SRB 17-4 ANN 1" x R/L L025718 12'7" 4 PC/134 LB PLEASE CUT ALL INTO 4' LG PIECES PLUS DROPS MUST BE SPEC AMS 5643		4 UN		135.00	540.00
		2	PC	SRB 17-4 ANN 1-3/8" x R/L L029746 12'5" 2 PC/124 LB PLEASE CUT ALL INTO 4' LG PIECES PLUS DROPS MUST BE SPEC AMS 5643		2 UN		280.00	560.00

07/28/09 13:22:01

Merchandise:	9,720.00
Surcharges:	
No Tax Costs:	
GST	486.00
PSTQ	765.45
Total Due:	10,971.45

Title to the goods sent out on this invoice remains with Magna Stainless Div of CSM ULC until such time as this invoice has been paid in full. Unless otherwise noted terms are 30 days. Interest accrues on all overdue accounts at the rate of 1.5% per month compounded monthly.

Q.S.T. # 1213236471
G.S.T. # 881565899 RT0001

August 19, 2009 3:06:10 PM

Page 1 of 1

All amounts are calculated in domestic currency.

All Vendors PO ID PO10117 All Receipt Dates All Line Item Types
All Item ID/GI/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

[illegible]



Magna Stainless

3755 Meran St. Saint-Laurent, Quebec H4S 0A3
 Phone: (514) 339-1211, (800) 363-8645 Fax: (514) 339-105

PACKING LIST

1014724

Page: 1 of 1

SOLD TO:
 BART AEROSPACE LTD
 1270 ABERDEEN STREET

HANESBURY
 85A 1K7
 Contact: LINDA

SHIP TO:
 METCOR
 560 BOUL ARTHUR SAUVE

SAINT-EUSTACHE, QC
 J7S 8A8
 Sales Terms: PREPAID



MTR-7

SPECIAL INSTRUCTIONS

Currency		Sales Person	Customer Phone	Customer Fax	Customer PO	
CANADIAN DOLLARS		ERVIN BLAIS	(613) 632-5200	(613) 632-1050	8810117	
Sales Order	Terms		Ship Via	Date Ordered	Date Required	Date Shipped
1016184	NET 30 DAYS		MTR-R-951065-L	07/22/09	07/27/09	07/27/09

Ordered	Back Ordered	Unit	Description	Bundle #	Heat #	Shipped
2		PC	STAINLESS - LB 17.4 PH-31837 X 4 750 X 9		30319	2
			PLEASE CUT BAR IN HALF	11, 201 LB / 2 PC	1029745	2
		PC	STAINLESS ROUNDS SPE 17.4 AND 17 X R/L			4
			PLEASE CUT ALL INTO 4 1/2 LB PIECES PLUS DROPS	12.7 1434 LB / 4 PC	1025718	4
2		PC	MUST BE SPEC AMF 5643		249478	
		PC	SPE 17.4 AND 17.3/8 X R/L			2
			PLEASE CUT ALL INTO 4 1/2 LB PIECES PLUS DROPS	12.5 174 LB / 2 PC	1029746	2
			MUST BE SPEC AMF 5643		615282	
Total Weight						1,459 LB

Received by

Date

Signature



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PO REPRINT

Purchase Order ID PO10117

Purchase Order Date 7/22/09

PO Print Date 7/22/09

Page Number 1 of 1

Order From :

VC-MAG002

MAGNA STAINLESS
5775 RUE KIERAN
ST LAURENT, QC H4S 0A3
CA

Contact Name

Vendor Phone 800 363 6646

Vendor Fax 514 339 1105

Vendor Account Nbr

Buyer

Requisition Nbr

Tax Resale Nbr 10127-2607

Terms Net 30

Currency CAD

FOB

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req. Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M174PH-H900B3.937X4.750 C209108107	17-4SS Bar H900 3.937x4.750 3.9x4.810	7/22/09 Yes	18.00 19.25' total 3x56" 1x57" long Rec'd 19.333	Epic collect	\$478.8900	\$8,620.02
2	M174PH-H900R1.000 rec'd 48 C209108107	17-4SS H900 ROUND BAR 1.00 44' total	7/22/09 Yes	40.00	Epic collect	\$13.5000	\$540.00
3	M174PH-H900R1.375 rec'd 24 C209108107	17-4 SS H900 ROUND BAR 1.375 24' total	7/22/09 Yes	20.00	Epic collect	\$28.0000	\$560.00

Special Inst: ALL ABOVE: 17-4PH cond. H900
PER AMS 5643
PLEASE SHIP ALL ABOVE TO
METCOR INC
560 BOUL. ARTHUR SAUVE
SAINT-EUSTACHE, QC
J7R 5A8 (450-491-5498)
SHIP VIA EPIC EXPRESS OUR
ACCT # 4300450343

POSITIVE RECALL

EFFECTIVE 7-22-09

RELEASED

AUTH *bl*
DATE 7/22/09

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY



PO Total:

\$9,720.02

Change Nbr: 2

Change Date: 7/22/09

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

L Lacelle

From: Eryck Blais [eblais@magnastainless.com]
Sent: July 22, 2009 1:14 PM
To: 'L Lacelle'
Subject: RE: rfq

THANK YOU
ERYCK

From: L Lacelle [mailto:llacelle@dartaero.com]
Sent: Wednesday, July 22, 2009 1:09 PM
To: Eryck Blais
Subject: RE: rfq

Hi Eryck,

We will take the 2 x 9' (3.937 x 4.750) THAT IS O.K
We also require 17-4PH H900 round bar 1.375, approx 20' 2 PCS 280.00 NOT H900
Please advise asap...and could you ship this stuff to metcor tomorrow? I CAN SHIP TO METCOR ON MONDAY
NEED ORDER TODAY BY 2:30 MAT'L IS IN ARE TOR BRANCH

Thx
Linda

From: Eryck Blais [mailto:eblais@magnastainless.com]
Sent: July 22, 2009 9:38 AM
To: 'L Lacelle'
Subject: RE: rfq

HI LINDA

NO IT DOES NOT MARK H900 YOU HAVE TO SEND IT TO METCOR
ERYCK

From: L Lacelle [mailto:llacelle@dartaero.com]
Sent: Wednesday, July 22, 2009 9:24 AM
To: Eryck Blais
Subject: RE: rfq

Does the bar read H900 on it? They did last time? Otherwise please ship to metcor

Thx
LL

From: Eryck Blais [mailto:eblais@magnastainless.com]
Sent: July 22, 2009 9:18 AM
To: 'L Lacelle'
Subject: RE: rfq

7/22/09

YES IT WOULD BE FASTER WE WOULD SHIP IT FOR YOU AT METCOR
ERYCK

From: L Lacelle [mailto:llacelle@dartaero.com]
Sent: Wednesday, July 22, 2009 9:09 AM
To: Eryck Blais
Subject: RE: rfq

IF IT'S FAST YES.

cut to 4'

From: Eryck Blais [mailto:ebblais@magnastainless.com]
Sent: July 22, 2009 9:03 AM
To: 'L Lacelle'
Subject: RE: rfq

GOOD MORNING LINDA

ON THE H900 CHANTAL WOULD TELL US TO SHIP AT METCOR AND YOU WOULD TAKE CARE OF THE
HEATING PROCESS TO H900.
THANK YOU ERYCK

From: L Lacelle [mailto:llacelle@dartaero.com]
Sent: Tuesday, July 21, 2009 4:09 PM
To: Eryck Blais
Subject: rfq

Please advise price and delivery on:

40' x 17-4PH bar 3.937 x 4.750 OFFER 2 PCS 9' \$4310.00 EACH 1 PC 4' \$1915.00 EACH AND 2 PCS 12'
LONG 5" SQ \$8095.00 EACH
40' x 17-4PH round bar 1.000 4 PCS 135.00 EACH STK
10' x 17-4PH bar .250 x 4.00 1 PC 225.00 EACH 5-7 DAYS
10' x 17-4PH bar .375 x 1.00 1 PC 115.00 EACH 5-7 DAYS
12' x 2024-T3 hex 1.375 1 PC \$385.00 EACH 7-10 Days
12' x 2024-T3 round bar 1.750 1 PC 255.00 EACH 5-7 DAYS
128sf x 2024-T3 sheet .080 3 PCS 345.00 EACH 5-7 DAYS
128sf x 2024-T3 sheet .040 3 PCS 285.00 EACH 5-7 DAYS
20' x 303 bar 1.500 x 3.000 2 PCS \$1165.00 EACH 5-7 DAYS
40' x 303 round bar .500 4 PCS \$17.00 EACH STK
40' x 304 bar .500 x 2.500 4 PCS 215.00 EACH TOR
10' x 304 bar .625 x 3.00 1 PC 310.00 EACH TOR
10' x 304 bar 1.750 x 1.750 \$685.00 EACH STK
64sf x 304 sheet 12ga 2 PCS 260.00 EACH STK
192sf x 304 sheet 16ga 6 PCS 158.00 EACH STK

Thank You,
Linda Lacelle
Production Manager
Dart Aerospace Ltd

7/22/09

Metcor Inc.

Metcor Inc.
560, boul. Arthur-Sauvé
St-Eustache (Québec) J7R 5A8
Tél.: (450) 473-1884
Fax Administration: (450) 491-5496
Fax Production: (450) 491-6454

Rapport d'inspection

Order	Load
149974	1

Customer: 215

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K8A 1K7

Shipped To:

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K8A 1K7

Customer PO / PO du Client	Customer Shipper No.	Material Type / Material	Mat'l Heat Code	Lot Number
10128		17-4PH		
PROCESSING SPECIFICATIONS				
AGE HARDEN CONDITION H 900 SAE AMS 2759/3 REV E				
Requirement	Specified	Tests Performed	Test Results	
HARDNESS	40 - 47 HRC	28	43 - 45 HRC	
Quantity	Weight	Part Number / Part Description		
28	1447	BARRE RONDE 8 BARRES DE 7" + 16 BARRES DE 48" BAR 1" & 1.375" BARRE CARREE 4 BARRES DE 58" BAR 3.937 X 4.750 1 PALETTE		

COMMENTS

INSPECTOR:



DATE: 2009-08-04

**MAGNA
INOXYDABLE INC.**

2
(613)
632-1053
FAX #:

DATE: Aug. 20/09

PAGES: 6 + COVER
+ COUVERTURE

E-MAIL: bmartin@magnastainless.com



MILL CERTIFICATE OF QUALITY

EN 5019 2.1.2
EN 10201 2.1.2

EXPIRATION 08/10/02-2006
NUMERO 212011 Rev 000
SHEET 13 / 2
DATE: 02/10/02-2006

CUSTOMER: ENERGEN AC0035

MATERIAL SPECIFICATION Q24 40 JULY 3

GRADE: 100H ACERALAVA

FORCE METHOD: BASIC ELECTRIC FURNACE + A.O.D OUR REFERENCE: 22192

ITEM	SIZE	LENGTH	WEIGHT	MOI.	WEIGHT	MOI.
2	100H 50	4.000 / 4.000 M.	36279	6	36279	6

CHEMICAL COMPOSITION (EN 10201 2.1.2)

EN 10201 2.1.2	C	Mn	P	S	Si	Al	Fe	CO	EN
36279	0.032	0.40	0.020	0.006	0.010	0.02	0.002	0.002	0.010
36279	0.040	0.400	0.010	0.002	0.009	0.007	0.007	0.010	0.015

MECHANICAL TESTING

ITEM	TEST	TESTED TO	TESTED TO	TESTED TO	TESTED TO
36279	2	EN	210	210	210
36279	3	EN	210	210	210

SUPPLIER FINDER

ITEM 2 FULLY SURFACE GRIND

ITEM 3 FULLY SURFACE GRIND

HEAT TREATMENT

WELDED

OTHER

THIS MATERIAL HAS BEEN MANUFACTURED ACCORDING OUR QUALITY SYSTEM APPROVED AND REGISTERED TO ISO 9001.

UNRECORDED TESTED ACCORDING TO

ITEM	CLASS	SIZE	STANDARD
2	EN	100H 50	EN 10201 2.1.2
3	EN	100H 50	EN 10201 2.1.2

SPECIFICATION CHECKED BY TONY HARRISON AND IS IN ACCORDANCE WITH OUR PURCHASE ORDER

DATE REGISTERED 02/10/02



ACERALAVA
ACERIA DE ALAVA S.A.
Director de Calidad e I+D

Javier Valle Echazua

Acciaierie Valbruna S.p.A.



36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4
Clienti / Dealers/Purchasers:
VALBRUNA CANADA LTD
8724 HULGATE CRESCENT
CDN-MILTON, ONT L5T 5Z1-CAN

Produttore: ACCIAIERIE VALBRUNA S.P.A.
Hersteller/Produktions

Avviso di Spedizione: D-VI09000237
Lieferungs-/Frachtpolice

Ordine nr: 808001998 STOCK
Bestell-/Vorkaufnummer

CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2005), 3.1

Certificato nr: MEST706471/2009/
Prüfung/Test-Nr.

Conferma ordine nr: EID8009960
Werk-/Auftrag-Nr.

Marchio di Fabbrica:
Zeichen des Unternehmens
Trade Mark
Signe de l'usine productrice



Purezza del Collaudo:
Stempel des Werkstoffprüfingen
Inspector's stamp/Prüfung der Tauglichkeit



Oggetto Prove: Polished Annealed Peeled
Prüfungszustand: bepoliert/entoxidiert

Tipo di Elaborazione: E+AOD
Erweiterung/erweiternde Prozessstufe der Erzeugung

Specifiche:
Anforderungen / Einzelanforderungen
VAL CANADA 2 630 A
ASTM A564 2004 S17400
(0) SEC. II PT A 2007 EDITION

AMS 5643 R S17400

ASME SA564 2007 S17400 (0)

Qualità: T-630
Werkstoff/Qualitätsklasse

Marca: V174
Markenbezeichnung/Brand/Marken

Punzonatura: T-630
Kennzeichnung/Marking/Markierung

Pos. nr. Item nr.	Oggetto Description	Dimensioni - in Abmessungen Dimensions	Tolleranza Tolerance Tolérance	Lunghezza - Ft Länge Longueur	Colata Schmelze Guss	Pezzi Stücke Pièces	Peso - LB Gewicht Poids	Lotto nr. Lose Lot nr.
0070	Round	1,0000	±0.008	10 / 12	247478		5.739	830403280

Sono state soddisfatte tutte le condizioni richieste
Die geforderten Anforderungen sind erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été livré conforme aux exigences

Controllo antisensibilizzazione: OK
Vorweldung/empfindlichkeit der Legierung
Antiblocking testing performed: OK
Controlle antisensibilisation: OK

Controllo visivo e dimensionale: soddisfa le esigenze
Bauabgleich und Abmessung: eine Genehmigung
Visual inspection and dimensional check satisfactory
Contrôle visuel et dimensionnel: satisfaisant

TEST	Prova/Prüfung Beschreibung Long. Short. Dia. Thick. Thin. Width. Depth. Thickness mm	°F	Post- Single Temper Treatment	Snervamento Biegeversuch Viel. Dura. Unter. Energie	Snervamento Biegeversuch Viel. Dura. Unter. Energie	Resistenza Zugversuch Tensile strength Resistenz à traction	Allungamento Zugversuch Elongation Allongement	Sirizione Zugversuch Reduction of area Striction	Resistenza Zugversuch Tensile strength Resistenz	Durezza Härte Dureté
	Valori richiesti / Anforderungen/Required values Valeur demandée	min max								363
A										344

Sample cond. H900

Tipo Trattamento Heat Treatment Technique/Treatment	Temperatura Temperature Température	Raffreddamento Abkühlung Refroidissement	Permanenza Haltezeit Dwell	Tipo Trattamento Heat Treatment Technique/Treatment	Temperatura Temperature Température	Raffreddamento Abkühlung Refroidissement	Permanenza Haltezeit Dwell	Tipo Trattamento Heat Treatment Technique/Treatment	Temperatura Temperature Température	Raffreddamento Abkühlung Refroidissement	Permanenza Haltezeit Dwell
Aging	800 °F	AIR	60								
TEST	Prova/Prüfung Beschreibung Long. Short. Dia. Thick. Thin. Width. Depth. Thickness mm	°F	Post- Single Temper Treatment	Snervamento Biegeversuch Viel. Dura. Unter. Energie Rp 0.2%	Snervamento Biegeversuch Viel. Dura. Unter. Energie	Resistenza Zugversuch Tensile strength Resistenz à traction Rm K.S.I.	Allungamento Zugversuch Elongation Allongement E ad %	Sirizione Zugversuch Reduction of area Striction RA %	Resistenza Zugversuch Tensile strength Resistenz	Durezza Härte Dureté HB	
	Valori richiesti / Anforderungen/Required values Valeur demandée	min max		170	-	190	10	40	-	388 444	
B	12.5	68	L	183		201	16	58		431	

FERRITE DELTA % : 1,0

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata / risat Bohrer/Reinigt	min - max 0,070	1,00	1,00	15,00 17,50	0,50	3,00 5,00	0,15 0,45	0,040 0,040	0,030 0,030	5°C 0,45	-	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Nb+Ta	P %	S %	Cb-Nb	Ta %			
247478	0,037	0,35	0,48	15,13	0,23	3,24	4,56	0,21	0,027	0,001	0,21	0,001			

Annealing temperature 1922 deg. F for 1 H / air.

Macro etch test: satisfactory.

Produced without class I-II Ozone depleting substances.

Material is DFARS Compliant

Vicenza, 09/01/09 V00012 (Mark. N. 237)	# collaudatore di stabilimento / der Werkstoffprüfingen / Works inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 2
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Acciaierie Valbruna S.p.A.



36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

CEBrite / Dealer/Portofoglio Client
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
CDN-MILTON, ONT L5T 5Z1-CAN

Produttore: ACCIAIERIE VALBRUNA S.P.A.
Hersteller/Hersteller produktion

Avviso di Spedizione: D-VI09000237
Materialenlieferungsfrist

Ordine nr: 808001998 STOCK
Bestellnummer/Bestellnummer

CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2005), 3.1

Certificato nr: MEST706471/2009/
Prüfung/Prüfung

Conferma ordine nr: EI08009960
Werk/Der Order/Ref. nr.

Marchio di Fabbrica:
Zeichen des Unternehmens
Trade mark
Logo de l'usine: production



Funzione del Collaudatore:
Stempel des Werkmeisters/Meistern
Inspector's stamp/Inspection de l'inspecteur



Oggetto Prove: Polished Annealed Peeled
Hilfsgüter/Produkt: Inspection/Inspection

Tipo di Elaborazione: E+AOD
Erstellung/Erstellung: E+AOD

Melted and manufactured in Italy No welding or weld repair Material free from Mercury or radio-activity contamination
The Quality Management System is Certified acc. Pressure Equipment Directive (97/23/EC) Annex I, 4.3 by TÜV and LLOYD'S

<p>Vicenza, 09/01/09 V00018 Mod. ACCERT</p>	<p>Il collaudatore di stabilimento / der Werksschwerständiger / Works Inspector / L'agent d'usine M. Rizzotto</p>	<p>Pagina - 2 di 2</p>
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CERTIFICATE OF TESTS
CERT SERIAL# 000681003



TALLEY METALS
A Carpenter Company

Talley Metals Technology, Inc.
205 Talley Metals Lane
McBee, SC. 29101 Tel: (610) 208-2000 (800) 338-4592

01/30/09

CUSTOMER/BESTELLER/CLIENT

ASA ALLOYS DIV. / CSM INC.
4311-92ND AVE.
EDMONTON, ALBERTA
T6B 3M7, CANADA

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

- THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.
- THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOT. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.
- MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
- THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF CARPENTER TECHNOLOGY CORPORATION.

SELLER/VERKÄUFER/VENDEUR PAGE 1 OF 2

TALLEY METALS TECH, INC.
ACCOUNTS PAYABLE
P. O. BOX 2498
HARTSVILLE, SC 29551

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKS-NR./N° DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
077548-AG	TLY952201 L14967	01/30/09	992.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE: G15282

PRODUCT DESCRIPTION: TYPE 17-4 SOLUTION ANNEALED COLD FINISH

SPECIFICATION: TALLEY 17-4T3A CAP OF H900

AMS 2303 REV E (10/ /01)
AMS 2315 REV F (01/ /08)
AMS 5643 REV R (02/ /08) (EXCEPT CD ROUND CHEM & MECH PROPS ONLY)
ASTM-A484-06B
ASTM-A564-04
ASME-SA564 2007 EDITION

SIZE 1.375000 IN. (34.93 MM) RD BAR

PRIMARY HEAT CHEMISTRY(WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

C (COM)	MN(XRF)	SI(XRF)	P (XRF)	S (COM)	CR(XRF)
0.029	0.86	0.40	0.019	0.026	15.36
NI(XRF)	MO(XRF)	CU(XRF)	N (FUS)	CB(XRF)	TA(XRF)
4.30	0.24	3.76	0.028	0.24	LT .01
CB+TA					
0.25					

THIS HEAT MELTED BY THE ARC/AOD PROCESSES
THIS MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS
OPERATIONS QUALITY PROGRAM MANUAL REVISION 27, DATED 1/08.

MILL HEAT TREATMENT:

TYPE SOL ANL
TEMP 1900F (1037C)
TIME (CONT FCE) 1.46 HOURS
QUENCH AIR

DISCS MACROETCHED AND APPROVED

HARDNESS AS SHIPPED, HBW - 341 (MIDRADIUS)

MICROSTRUCTURE - FERRITE - NONE
MAGNETIC PARTICLE: FREQUENCY = 0 / SEVERITY = 0

CONTINUED ON NEXT PAGE

This certification is made to the customer printed on this form. Carpenter neither makes, nor assumes responsibility for, any representations or certification to other parties.
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CERTIFICATE OF TESTS
CERT SERIAL# 000681003

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE



TALLEY METALS
A Carpenter Company

Talley Metals Technology, Inc.
205 Talley Metals Lane
McBee, SC. 29101 Tel: (610) 208-2000 (800) 338-4592

01/30/09

CUSTOMER/BESTELLER/CLIENT

ASA ALLOYS DIV./ CSM INC.
4311-92ND AVE.
EDMONTON, ALBERTA
T6B 3M7, CANADA

SELLER/VERKÄUFER/VENDEUR PAGE 2 OF 2

TALLEY METALS TECH, INC.

ACCOUNTS PAYABLE
P. O. BOX 2498
HARTSVILLE, SC 29551

CUSTOMER ORDER NO./BESTELL-NR./N° DE COMMANDE	CARPENTER NO./WERKE-NR./N° DE REFERENCE INTERNE	DATE/DAUM/DATE	WEIGHT/GEWICHT/POIDS
077548-AG	TLY952201 L14967	01/30/09	992.000

HEAT NUMBER / SCHMELZE-NR. / N° DE COULEE:
CAPABILITY

G15282

900 F (482 C), 01 HR

AIR COOL

YIELD STRENGTH, (0.20 %) KSI(MPA)	186.0 (1282)
TENSILE STRENGTH, KSI(MPA)	207.0 (1427)
ELONGATION IN 2.00", %	13.0
REDUCTION OF AREA, %	46.0
HARDNESS, HBW	409.0

(CONVERTED FROM TENSILE STRENGTH)

NO WELD REPAIR PERFORMED
MATERIAL PRODUCED ON THIS ORDER WAS MELTED AND MANUFACTURED IN THE U.S.A.
MATERIAL HAS BEEN MELTED IN USA OR QUALIFYING COUNTRY TO DFARS REQUIRE-
MENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1.
WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE
PURCHASE ORDER AND SPECIFICATION REQUIREMENTS. CERTIFICATE OF TEST IS
PREPARED IN ACCORDANCE WITH PARAGRAPH 3.1B OF EN 10204(DIN50049)

STEPHANIE E. MCCULLUM
QUALITY ASSURANCE ENGINEER
CARPENTER TECHNOLOGY CORPORATION

Stephanie E. McCullum

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Ce certificat est uniquement valable pour le client dont le nom est imprimé sur ce formulaire. Carpenter n'assume pas de responsabilité pour une certification vis-à-vis d'une tierce personne.



LIQUID PENETRANT TEST REPORT

P- 05492 . .

CLIENT MART AEROSPACE DATE Dec 19/2010 PAGE 1 OF 1
ATTENTION Ms. KACELLE / MANAGER / IAH ACUREN JOB NO. 185-10-C987 TIME AM ☒ PM ☐
ADDRESS 1270, ALBERT DEAN POWO No. 13113
HAWKES BULLY, ON WORK LOCATION AS ADDRESS
ACCEPTANCE STD. ASIM1417/CS1038 REV./DATE 2005
PROJECT LIQUID PENETRANT INSPECTION ON "CROSSTUBE" - HIGH ALT
ITEM(S) EXAMINED SEE W.O. # IN RESULTS

JOB DESCRIPTION PROCEDURE NO. LT-003 REV./DATE 2003 TECHNIQUE NO. LT-003 REV./DATE 2003
PART NO. MATERIAL 2130 THICKNESS N/A
SCOPE PERFORMED A WET FLOW INSPECTION BY LIQUID PENETRANT ON 100% OF THE EXTERNAL SURFACE

TEST DETAILS
METHOD ☒ FLUORESCENT ☐ VISIBLE ☐ WATER WASH ☐ SOLVENT REMOVABLE ☐ POST EMULSIFIED
FAMILY BRAND MACALUFLOW BLACK LIGHT S/N 13740 ☒ OUTPUT > 1000 μ W/cm² ☐ AMBIENT < 2 fc
PENETRANT ZK-67 MINIMUM DWELL TIME 10 MIN. LIGHTING EQUIP. ☒ FLASHLIGHT ☐ TROUBLELIGHT ☒ OUTPUT > 100 fc @ SURFACE
PENETRANT REMOVER H2O MINIMUM DRY TIME >10 MIN. OTHER
DEVELOPER SKN-32 MINIMUM DWELL TIME 10 MIN. LIGHT METER S/N CAL DUE DATE FEB 05-2011
DEVELOPER TYPE ☐ NON AQUEOUS ☐ AQUEOUS ☐ DRY

TEST SURFACE
SURFACE CONDITION ☐ AS GROUND ☐ AS WELDED ☐ MACHINED ☐ SHOT BLASTED ☒ CLEAN BARE METAL
SURFACE TEMPERATURE ☐ < -4°C/ 20°F ☐ -4°C/ 20°F TO 10°C/ 50°F ☒ 10°C/ 50°F TO 52°C/ 125°F ☐ > 52°C/ 125°F

RESULTS- ☐ METRIC ☒ IMPERIAL

ITEMS	W.O. ID	RESULTS	DEFLECTION TEST
1	63746	✓	✓
2	63747	✓	✓
3	63748	✓	✓
4	63749	✓	✓
5	61763	✓	✓
6	61764	✓	✓
7	61765	✓	✓
8	61766	✓	✓
B	A4 SEE NOTE	BA	
ITEMS	AC 201		
EX MOUNTS - W.O. ID	61890	✓	

NOTE: B = BEFORE DEFLECTION TEST
A = AFTER DEFLECTION TEST
ITEM ID: D350-748-201 (ITEMS 1, 2, 3, 4)
ITEM ID: D350-748-101 (ITEMS 5, 6, 7, 8)
ITEM ID: D3687-3 (MOUNTS)

10-12-13

Scope of Services
The agreement of Acuren Group Inc. to perform services extends only to those services provided for in writing. Under no circumstances shall such services extend beyond the performance of the requested services. It is expressly understood that all descriptions, comments and expressions of opinion reflect the opinions or observations of Acuren Group Inc. based on information and assumptions supplied by the owner/operator and are not intended nor can they be construed as representations or warranties. Acuren Group Inc. is not assuming any responsibilities of the owner/operator and the owner/operator retains complete responsibility for the engineering, manufacture, repair and use decisions as a result of the data or other information provided by Acuren Group Inc. In no event shall Acuren Group Inc.'s liability in respect of the services referred to herein exceed the amount paid for such services.

Standard of Care
In performing the services provided, Acuren Group Inc. uses the degree, care and skill ordinarily exercised under similar circumstances by others performing such services in the same or similar locality. No other warranty, expressed or implied, is made or intended by Acuren Group Inc.

SIGNATURES
CLIENT REPRESENTATIVE John Tolley DTR # EC3107
TECHNICIAN (SIGNATURE): [Signature] REPORT REVIEWED BY:
NAME (PRINT): Wesley S. [Signature] NAME INITIALS
1st TECHNICIAN 2nd TECHNICIAN
CGSB LEVEL 3 SNT LEVEL 2 CGSB LEVEL --- SNT LEVEL ---
CGSB REG. No 3049 CGSB REG. No ---

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